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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,973	06/20/2003	Stephan K. Barsun	200209065-1	6556
22879	7590	03/01/2005	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			VU, PHUONG T	
			ART UNIT	PAPER NUMBER
			2841	

DATE MAILED: 03/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/600,973	BARSUN ET AL.
	Examiner	Art Unit
	Phuong T. Vu	2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 10 December 2004.  
 2a) This action is FINAL.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-37 and 39-43 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) 18-37,39,42 and 43 is/are allowed.  
 6) Claim(s) 1,4-7,9 and 17 is/are rejected.  
 7) Claim(s) 2,3,8,10-16,40 and 41 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 20 June 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date: _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 10-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. In claim 10, the amended claim language stating that the first printed circuit assembly and the second printed assembly are moved in a direction non-parallel to one another as the second connector is moved into connection with the first connector is not supported by the original disclosure and appears to be contrary to the original disclosure.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 4-7, 9, 17 are rejected under 35 U.S.C. 102(b) as being anticipated, or in the alternative, under 35 U.S.C. 103(a) as being unpatentable over Sevier (US 6,381,146B1). Regarding claim 1, the reference discloses an electronic system comprising a chassis 114, a pivoting member 230 pivotably coupled to the chassis about a first axis, a system component (interface necessarily provided for connector 21 since the connector must be supported and electrically interfaced with other components of the electronic system) coupled to the chassis and having a first connector 21, a first printed circuit board assembly 110 having a second connector 20 and a link 240 coupled to the first printed circuit assembly and pivotably coupled to the pivoting member about a second axis parallel to the first axis, wherein pivoting of the pivoting member in a first direction moves the second connector into connection with the first connector and wherein pivoting of the pivoting member in a second direction moves the second connector out of connection with the first connector. The reference teaches that the module 110 may be disk drive, controller or other type of electronic device which would necessarily have a first printed circuit board assembly for the module to function as intended. Furthermore, it would have been obvious to those skilled in the art at the time the invention was made to provide an electronic system which receives a circuit board assembly with a latching configuration as taught by the reference. Such a system would allow a printed circuit board assembly to be inserted into a chassis and would facilitate insertion and removal of the circuit board assembly for inspection, repair, replacement or upgrading of the circuit board assembly.

Regarding claim 4, the link is releasably coupled to the pivoting member through screw 226.

Regarding claim 5, the link has an upper end configured as a handle for the first printed circuit assembly.

Regarding claim 6, a stiffener 242 is coupled to the first printed circuit assembly between the first printed circuit assembly and the link.

Regarding claim 7, wherein the second connector extends from a first face of the printed circuit assembly and wherein the link extends from a second face of the first printed circuit assembly opposite the second connector.

Regarding claim 9, the pivoting member includes a channel and the link includes a head portion 226 slidably received within the channel.

Regarding claim 17, the pivot member pivots about a horizontal axis. Horizontal is a relative directional term.

***Allowable Subject Matter***

6. Claims 18-37, 39, 42-43 are allowed.

The allowability of independent claims 18, 24, 31 resides in the recitation of a pivoting member pivotally coupled to the chassis for pivotal movement about an axis and a link coupled to the first printed circuit assembly and adapted to be slidably coupled to the pivoting member such that the link pivots and slides relative to the pivoting member as the pivoting member is pivoted to move the second connector between a connected state in which the second connector is connected to the first

connector and the first printed circuit assembly is parallel to the axis, in combination with the other recited limitations of the electronic system.

The allowability of independent claims 33, 42, 43 resides in the recitation of a link coupled to the system component and slidably coupled to a lever and wherein the first component comprises a first printed circuit assembly wherein the lever is pivoted about an axis while the first printed circuit assembly is substantially parallel to a second printed circuit assembly in combination with the other recited limitations of the electronic system.

7. Claims 2-3, 8, 14-16, 40-41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The prior art made of record and not relied upon but considered pertinent to applicant's disclosure is listed in the attached Notice of References Cited.

***Response to Arguments***

9. Applicant's arguments filed 10 December 2004 have been fully considered. In view of the claim changes, the previous 35 U.S.C. 112 rejection has been withdrawn. Regarding the rejection based on the Roy and Joo references, Applicant arguments are moot since those rejections have been withdrawn due to the amendments to the claims.

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong T. Vu whose telephone number is (571) 272-2111. The examiner can normally be reached on Mon. & Tues., 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Phuong T. Vu  
Patent Examiner  
Group 2841